

#### Superheterodyne Receiver

# RRF1-XXX-Y

# FSK Superhet Receiver



### **General description**

The RRF1-XXX is an FSK superhet data receiver with pre-Amplifier front end filter.

IF Frequency: 1 MHz

Typical sensitivity: -90 dBm Supply current: 5.5 mA (typ)

Up to 250 meters range with RTF2-XXX transmitter.

## **I-ETS 300-220 Compliance**

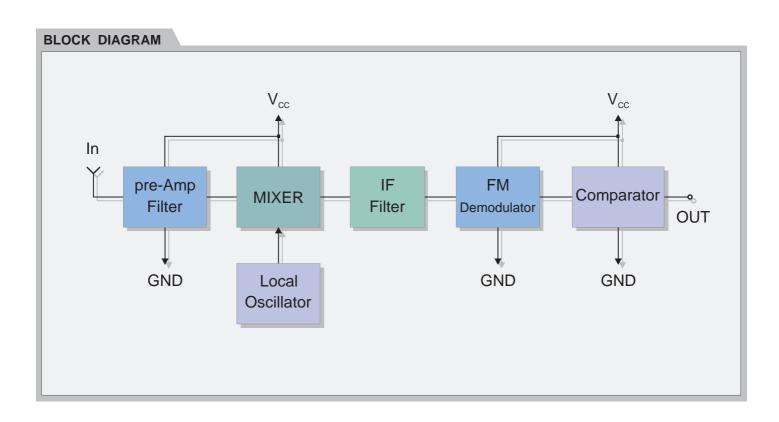
**XXX:** custom-specified working frequency (315, 418, 433.92 MHz)

**Y**: Bit rate specification

> A: 2.4Kbps B: 4.8Kbps C: 9.6Kbps

### **Applications**

- Wireless security systems
- Car Alarm systems
- Remote gate controls
- Sensor reporting



### **Electrical Characteristics**

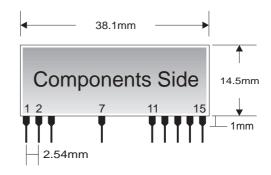
Ta = 25°C unless otherwise specified

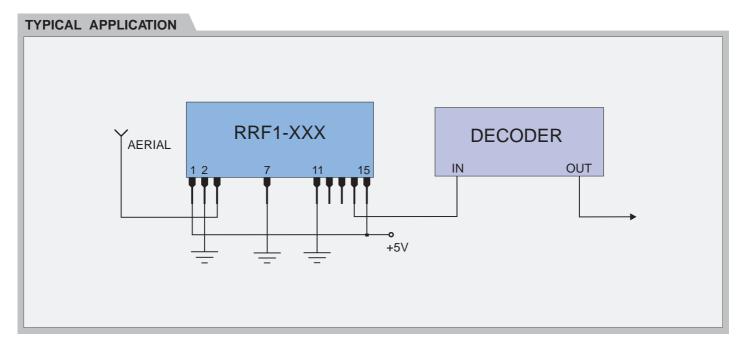
	CHARACTERISTICS		MIN	TYP	MAX	UNIT
$V_{cc}$	Supply Voltage		3.5	5	5.5	VDC
Is	Supply Current			5.5	6	mA
	RF Sensitivity	A version: 2.4 Kbps B version: 4.8 Kbps C version: 9.6 Kbps		-94 -90 -87		dBm
	Frequency Deviation			±25		KHz
$B_{w}$	-3dB Bandwidth			±400		KHz
	Level of Emitted Spe	ctrum		-70	-65	dBm
$V_{ol}$	Low-Level Output Vo	Itage (I=-200uA)			0.6	V
$V_{oh}$	High-Level Output Vo	oltage (I=10uA)	V <sub>cc</sub> - 0.5			V
$T_OP$	Operating Temperatu	ire Range	-25		+80	°C

## **Pin Description**

1	$V_{cc}$	12	NC
2	GND	13	NC
3	IN	14	OUT
7	GND	15	$V_{cc}$
11	GND		

### **Mechanical Dimensions**







#### **HEAD OFFICE & PLANT**

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